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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/604,055	06/24/2003	Patricia Chapman Irwin	839-1405	1054		
30024 7.	590 07/12/2005		EXAM	EXAMINER		
NIXON & VANDERHYE P.C. 901 NORTH GLEBE ROAD, 11TH FLOOR			NGUYEN, TRAN N			
ARLINGTON,		OK	ART UNIT	PAPER NUMBER		
			2834			
			DATE MAILED: 07/12/2003	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

			דיון			
	Application No.	Applicant(s)				
	10/604,055	IRWIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tran N. Nguyen	2834				
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet wi	th the correspondence addres	S			
A SHORTENED STATUTORY PERIOD FOR R	EPLY IS SET TO EXPIRE 3 M	ONTH(S) FROM				
THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days. - If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a ron. a reply within the statutory minimum of thin berod will apply and will expire SIX (6) MON statute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this commur 3ANDONED (35 U.S.C. § 133).	nication.			
Status						
1) Responsive to communication(s) filed on	6/20/05.					
,	This action is non-final.	•				
3) Since this application is in condition for all		ers, prosecution as to the me	rits is			
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		,				
4) Claim(s) 1-25 is/are pending in the application	ation.	$\mathcal{F}_{i} = \mathcal{F}_{i}$				
4a) Of the above claim(s) 13-25 is/are with	ndrawn from consideration.					
5)⊠ Claim(s) <u>4-10, 12</u> is/are allowed.						
6)⊠ Claim(s) <u>1-3 and 11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	and/or election requirement.					
Application Papers						
9) The specification is objected to by the Exa	miner.					
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to	o the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the co	orrection is required if the drawing	(s) is objected to. See 37 CFR 1.	121(d).			
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	d Office Action or form PTO-15	52.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for	reign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) All b) Some * c) None of:	•					
1. Certified copies of the priority docu	ments have been received.					
2. Certified copies of the priority docu	ments have been received in A	pplication No				
3. Copies of the certified copies of the	priority documents have been	received in this National Stag	je			
application from the International B	ureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for	a list of the certified copies not	received.				
			:			
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94 		Summary (PTO-413) s)/Mail Date				
Notice of Draitsperson's Patent Drawing Review (F10-94 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date		nformal Patent Application (PTO-152))			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED OFFICE ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-3 and 11 have been considered but are most in view of the new ground(s) of rejection. As a result the Final Office Action on 3/18/05 is hereby withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagai in (US 6,054,224) view of Vora et al (US 5120825).

Nagai discloses a polymer co-extruded layers that can be used as slot liner. Specifically, Nagai discloses that the polyester resin for forming the base layer preferably contains a polymer or fine particle incompatible with the polyester resin, and more specifically a polyolefin, such as polypropylene or polymethylpentene. Nagai specifically discloses that the material is multilayered and in order to prevent seperation at the interface between the based layer and the surface layer that the multilayered film of the present invention be produced by melting polyester resins constituting a base layer and a surface layer, joining these layers, extruding them through a die, cooling them (Nagai's Summary Section).

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Vora, however, teaches that *polymers may be cast as motor slot armors* (also known as slot liners) for insulating the electrical winding from the core and also may serve as heat insulating.

Thus, it would have been obvious to one skilled in the art at the time the invention was made to modify the Crawford's or the Hagiwara's slot armors by selecting polymer as fabricating material thereof, as taught by Vora. Doing so would provide the slot armor with highly electrical and heat insulating material to improve the performance thereof.

Regarding claim 11 with the limitations of the first polymer having non-uniform thickness and the second polymer layer having uniform thickness, those skilled in the art would understand that the essential teaching of Crawford or Hagiwara in view of Vora, is the slot armor can be formed as a plurality laminated layers of polymer.

By applying this teaching, it would have been obvious to an artisan at the time the invention was made to modify the size/shape of each polymer in order to ensure fit or enhance performance of the slot armor because it has been held that a change in size or shape, in this instant case it is the change in the size/shape of the polymer layers, is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955) (emphasis added).

 Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagai and Vora, as applied in the rejection against the base claim, and further in view of Kaminski (US 5065064).

The combination of Crawford, or individually Hagiwara, and Vora refs substantially discloses the claimed invention, except for the added limitations of the following: the armor having first leg and second leg that is shorter than the first leg, wherein

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the thickness of the legs is uniformed (as in claim 3), or

the thickness of the second leg is thicker than the first leg (as in claim 2).

Kaminski, however, teaches a slot armor having the configuration with a first leg (12,

13) that is longer than the second leg (12b, 13b) wherein the second leg is bent at an angle to the

first leg. The armor with first leg is located along the slot's length and the second leg provides

supporting the end layer of the winding and provides insulating for the end of the slot.

Thus, it would have been obvious to one skilled in the art at the time the invention was made

to modify the slot armor with the configuration as taught by Kaminski. Doing so would provide

the armor with long portion that located along the slot's length and the second short portion

provide supporting the end layer of the winding and provide insulating for the end of the slot.

Regarding the thickness of the second leg to be thicker (as in claim 2), or the armor leg

portions having uniform thickness (as in claim 3), by applying the Kaminski's teaching, it would

have been obvious to an artisan at the time the invention was made to modify the size/shape of

the leg portions of the armor as suitably fitting the slot of a core, since it has been held that a

change in size or shape, in this instant case it is the change in the size/shape of the polymer

layers, is generally recognized as being within the level of ordinary skill in the art. In re Rose,

105 USPQ 237 (CCPA 1955) (emphasis added).

Allowable Subject Matter

Claims 4-10, 12 are allowed.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tran N. Nguyen whose telephone number is (571) 272-2030. The examiner can normally be reached on M-F 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571)-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ran N. Nguyer

Primary Examiner

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